

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A container having a wall structure comprising a at least one polymer material, ~~characterized in that~~ wherein the polymer material comprises includes an acid diffusion barrier comprising at least one polymer chosen from a cycloolefin polymer, COP, and/or a cycloolefin copolymer, COC, and wherein the ~~that~~ the container contains an acid.
2. (Currently Amended) A container according to claim 1 2, wherein the cycloolefin polymer or the cycloolefin copolymer has a water vapour permeability below 0.05 g•mm/m²•day, when tested according to DIN 53 122 at 23°C.
3. (Currently Amended) A container according to claim 1 ~~any of claims 1 or 2~~, wherein the cycloolefin polymer or the cycloolefin copolymer has a water uptake below 0.01%, when tested according to ISO 621 at 23°C.
4. (Currently Amended) A container according to claim 1 ~~any of claims 1-3~~, wherein the cycloolefin polymer or the cycloolefin copolymer has an acetic acid permeability below 0.02 ml/m²•day, ~~preferably below 0.007 ml/m²•day~~, when tested according to ISO/CD 15105-2.
5. (Currently Amended) A container according to claim 1 ~~any of claims 1-4~~, wherein said acid is chosen from ~~a group comprising of~~ acetic acid, hydrochloric acid, gluconic acid, lactic acid, carbonic acid, and citric acid, ~~preferably acetic acid~~.
6. (Currently Amended) A container according to claim 1 ~~any of claims 1-5~~, wherein the acid is an acidic liquid.

7. (Currently Amended) A container according to claim 1 any of claims 1-6, wherein the acid is a concentrate for a dialysis fluid.

8. (Currently Amended) A container according to claim 1 any of claims 1-7, wherein the polymer material includes comprises a cycloolefin copolymer, COC and the COC cycloolefin copolymer is an amorphous copolymer.

9. (Original) A container according to claim 8, wherein the cycloolefin copolymer is based on cycloolefins and linear olefins.

10. (Currently Amended) A container according to claim 1 any of claims 1-9, wherein the polymer of the acid diffusion barrier polymer is processed in a multilayer arrangement with at least one polymer chosen from a group consisting of PP, PE, PA, EVA and/or EVOH.

11. (Currently Amended) A container according to claim 10, wherein the polymer of the acid diffusion barrier polymer at least is at least provided as an inner layer in contact with the contained acid.

12. (Currently Amended) A container according to claim 10, wherein the polymer of the acid diffusion barrier polymer is provided as a layer on the inner side of a polymer layer comprising a polymer having a high water uptake.

13. (Original) A container according to claim 12, wherein said polymer having a high water uptake is EVOH.

14. (Currently Amended) A container according to claim 10, wherein a first inner layer includes comprises PP or PE or a mixture thereof, a second layer comprises of cycloolefin copolymer includes COC, a third, fourth and a fifth layers include comprises PE and an outer layer includes comprises PA.

15. (Currently Amended) A container according to claim 1 any of claims 1-14, wherein the wall structure is made of a coextruded film.

16. (Currently Amended) A container according to claim 1 ~~any of claims 1-15~~, wherein at least a first and a second compartment {2, 3} are provided within said container. {1}.

17. (Currently Amended) A container according to claim 16, wherein said compartments {2, 3} are separated by an openable seal {4} provided between the compartments.

18. (Currently Amended) A container according to claim 16 ~~any of claims 16 or 17~~, wherein the first compartment {2} comprises the acid fluid and the second compartment {3} comprises a carbohydrate containing fluid.

19. (Original) A container according to claim 18, wherein the carbohydrate containing fluid is a glucose fluid or a fluid of glucose like compounds.

20. Cancel.

21. (Currently Amended) ~~Use of the container according to any of claims 1-19~~ A method for storing a medical solution for hemodialysis, hemodiafiltration, hemofiltration, peritoneal dialysis, intensive care fluid management, nutrition compounds concentrates, lavage fluids or for infusion therapies comprising storing the medical solution in the container of claim 1.

22. (Currently Amended) A system for providing a medical solution comprising at least one container according to claim 1 ~~any of claims 1-19~~.

23. (Currently Amended) A system according to claim 22 comprising a water reservoir {21}, a glucose concentrate {22}, at least one electrolyte concentrate {22, 29, 30} and a fluid acid {22}.

24. (Currently Amended) A system according to claim 22 or 23, wherein the concentrates {22, 29, 30} have such pH-values that the resulting medical solution after

mixing is substantially neutral, having has a pH-value between 6,5 and 8,0, preferably between 7,0 and 7,4.

25. (Currently Amended) A method for treatment by hemodialysis, hemo-diafiltration, hemofiltration, peritoneal dialysis, intensive care fluid management, nutrition compounds, concentrates, lavage fluids or infusion therapies comprising administering a medical solution from the by means of a container according to claim 1 any of claims 1-19.

26. (New) A method of providing an acid diffusion barrier in a container comprising providing as the acid diffusion barrier a polymer comprising at least one cycloolefin polymer and/or at least one cycloolefin copolymer.